STIC-Biotech/ChemLib

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Kerr, Kathleen

Saturday, February 02, 2002 11:20 AM

To: Subject: STIC-Biotech/ChemLib

Sequence Search Request 09/449817

For:

Kathleen Kerr Employee #77468 Mail Box 10C01 Art Unit 1652 Rm 10B13, CM1

305-1229

In Application No. 09/449,817 in commercial and issued databases:

Please search SEQ ID Nos: 1, 3 against nucleic acid databases.

Please do an oligomer search of SEQ ID Nos: 1, 3 against nucleic acid databases.

Please search SEQ ID Nos: 2, 4 (amino acid seqs) against nucleic acid databases.

Please search SEQ ID Nos: 1, 3 against 09449817.seq (nucleics in its own file). Please search SEQ ID Nos: 1, 3 against 09449817.pep (proteins in its own file).

Please call with any questions

Please save results on ***diskettes.***

Thank you very much.

Kathleen Kerr

Kathleen Kerr, Ph.D. Patent Examiner

Recombinant Enzymes, Art Unit 1652

United States Patent and Trademark Office

Arlington, VA

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Point of Contact:
Toby Port
Technical Info. Specialist
CM1_HE01 TEL: 308-3534

Searcher: _______Phone: _______Location: ______

Date Picked Up: 249

Date Completed: 2/7 Searcher Prep/Review: 20

Clerical: _

Online time: 20

TYPE OF SEARCH:

NA Sequences: // AA Sequences:

Full text:_______
Patent Family:______
Other:

VENDOR/COST(where applic.)

STN: ______DIALOG: _____

WWW/Internet:
Other (specify):

```
12-MAR-1998
                                        PAT
                   1203 bp
                           DNA
LOCUS
         A63553
         Sequence 6 from Patent WO9722695.
DEFINITION
         A63553
ACCESSION
         A63553.1 GI:3717208
VERSION
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SOURCE
         unidentified
 ORGANISM
         unclassified.
REFERENCE
           (bases 1 to 1203)
         Talerman, A., Amson, R. and Cohen, D.
 AUTHORS
         NUCLEOTIDE SEQUENCES, PROTEINS, DRUGS AND DIAGNOSTIC AGENTS FOR
 TITLE
         TREATING CANCER
         Patent: WO 9722695-A 6 26-JUN-1997;
 JOURNAL
         FONDATION JEAN DAUSSET CEPH (FR)
         Other publication FR 2747691 19971024
COMMENT
                                        21 others
BASE COUNT
            267 a
                  326 c
                          347 g
                                 242 t
                                                  ORIGIN
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 Best Local Similarity
                    71.8%; Pred. No. 1.6e-55;
 Matches 469; Conservative 1; Mismatches 156; Indels
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                                                           6;
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Qу
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Qγ
           Db
Qу
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Db.
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Qу	589	ttgaggtccaaattcctgggactcaaatgtatgcatgactattcagaatgata 641
Db	78	CTGAGATCCTAATTCCTGGGATGCAGGTGTAAACTGACATACTCAGAATGACA 26

ją

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human
2. US-09-449-817A-1 (1-733)
  US-09-449-817A-3 Sequence 3, Application US/09449817A
 Sequence 3, Application US/09449817A
 GENERAL INFORMATION:
 APPLICANT: Genotherapeutics Inc.
 APPLICANT: Steiner, Mitchell
```

APPLICANT: Rinaldi, Augustine

APPLICANT: Menon, Rema

TITLE OF INVENTION: An isolated nucleic acid encoding P-HYDE protein and methods of inducing

TITLE OF INVENTION: susceptibility to induction of cell death in cancer

FILE REFERENCE: P-2762-US1

CURRENT APPLICATION NUMBER: US/09/449,817A

CURRENT FILING DATE: 2001-08-16

PRIOR APPLICATION NUMBER: US 09/302,457

PRIOR FILING DATE: 1999-04-29

NUMBER OF SEQ ID NOS: 6

SOFTWARE: PatentIn version 3.0

SEQ ID NO 3 LENGTH: 1467 TYPE: DNA ORGANISM: Rat

353 Optimized Score = 396 Significance = -0.08Initial Score Residue Identity = 75 84% Matches 401 Mismatches 0 1 Conservative Substitutions Gaps

10 20 TACGACTTGGTCAACCTGGCAG 11 11 11 11 1

 $\tt TGCTGCACGCTCTCTACAGCTTCTGCCTGCCGCTGCGCCGCTCCCACCGCTATGATCTGGTCAACCTGGCTG$ 990 1000 950 960 970 980 1010

40 50 60 70 ${\tt TCAAGCAGGTCTTGGCCAACAAGAGCCACCTCTGGGTGGAGGAGGAGGTCTGGCGGATGGAGATCTACCTCT}$ TGAAGCAGGTCCTGGCCAACAAGAGCCGCCTCTGGGTTGAGGAAGAAGTCTGGCGGATGGAGATATACCTGT 1040 1050 1060 1070 1080 1020 1030

100 110 120 130 140 150 CCCTGGGAGTGCTGGCCCTCGGCACGTTGTCCCTGCTGGCCGTGACCTCACTGCCGTCCATTGCAAACTCGC $\tt CCCTGGGTGTGCTGGCCTTCCGTGCTGTCACTGCTGGCGGTTACCTCGATCCCTTCCATTGCAAACTCAC$ 1090 1100 1110 1120 1130 1140 1150

200 210 220 230 170 180 190 TCAACTGGAGGGAGTTCAGCTTCGTTCAGTCCTCACTGGGCTTTGTGGCCCTCGTGCTGAGCACACTGCACA TCAACTGGAAGGAGTTCAGCTTTGTGCAGTCCACGCTGGGCCTTCGTGGCCCTGATGCTGAGCACAATGCACA 1190 1160 1170 1180 1200 1210 1220

240 270 300 250 260 280 290 CGCTCACCTACGGCTGGACCCGCGCCTTCGAAG-AGACCGCTACAAGTTCTACCTGCCTCCCACCTTCACGC 1230 1240 1250 1260 1270 1280 1290

 ${\tt TCACGCTGCTGCTCGTCGTCATCCTGGCCAAAGCCCTGTTTCTCCTGCCCTGCATCAGCCGCAGAC}$ TCACGCTGCTCCTGCCCTGTGTCATCATCCTGGCCAAGGGCCTCTTCCTCCTGCCCTGCCTCAGCCACAGAC ${\tt TCCCCAGGATCCGGAGAGCTGGGAGAGGGAGAGCACCATCAAGTTCACGCTGCCCACAGACCACGCCCTGG}$ X 480 $\tt CCGAGAGACGAGCCACGTATGAGGTGCCTGCCCTGGGCTCTGGACCCCGGGCACACGAGGGACGGTGCCCT$ GGGAGAAAACAAGCCACGTGTGA

A.

(19) World Intellectual Property Organization International Bureau



| 1874 | 1775 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787 | 1787

(43) International Publication Date 15 March 2001 (15.03.2001)

PCT

(10) International Publication Number WO 01/18022 A1

- (51) International Patent Classification⁷: C07H 21/04, 21/02, C07K 5/00, 14/00, C12Q 1/68, C12N 1/12, 15/63, 15/85, 15/86
- (21) International Application Number: PCT/US00/24008
- (22) International Filing Date: 31 August 2000 (31.08.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/152,317 60/152,315 3 September 1999 (03.09.1999) US 3 September 1999 (03.09.1999) US

- (71) Applicant (for all designated States except US): HUMAN GENOME SCIENCES, INC. [US/US]; 9410 Key West Avenue, Rockville, MD 20850 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): NI, Jian [CN/US]; 5502 Manorfield Road, Rockville, MD 20853 (US). BAKER, Kevin, P. [GB/US]; 14006 Indian Run Drive, Darnestown, MD 20878 (US). BIRSE, Charles, E. [GB/US]; 13822 Saddleview Drive, North Potomac, MD 20878 (US). FISCELLA, Michele [US/US]; 6308 Redwing Road, Bethesda, MD 20817 (US). KOMAT-SOULIS, George, A. [US/US]; 9518 Garwood Street, Silver Spring, MD 20901 (US). ROSEN, Craig, A. [US/US]; 22400 Rolling Hill Road, Laytonsville, MD 20882 (US). SOPPET, Daniel, R. [US/US]; 15050 Stillfield Place, Centreville, MD 22020 (US). YOUNG. Paul, E. [US/US]; 122 Beckwith Street, Gaithersburg, MD 20878 (US). EBNER, Reinhard [DE/US]: 9906 Shelburne Terrace, #316, Gaithersburg, MD 20878 (US). DUAN, D., Roxanne [US/US]; 5515 Northfield Road, Bethesda, MD 20817 (US). OLSEN, Henrik, S. [DK/US]; 182 Kendrick Place, #24, Gaithersburg, MD 20878 (US).

LAFLEUR, David, W. [US/US]; 3142 Quesada Street, N.W., Washington, DC 20015 (US). MOORE, Paul, A. [GB/US]; 19005 Leatherbark Drive, Germantown, MD 20874 (US). SHI, Yanggu [US/US]; Apt. 102, 437 West Side Drive, Gaithersburg, MD 20878 (US). WEI, Ying-Fei [CN/US]; 242 Gravatt Drive, Berkeley, CA 94705 (US). FLORENCE, Kimberly, A. [US/US]; 12805 Atlantic Avenue, Rockville, MD 20851 (US).

- (74) Agents: HOOVER, Kenley, K. et al.; c/o Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- With (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 52 HUMAN SECRETED PROTEINS

(57) Abstract: The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.



```
ID
    AAF91864 standard; cDNA; 1038 BP.
XX
DТ
    22-MAY-2001 (first entry)
XX
DE
    Human secreted protein-encoding gene 7 cDNA clone HLQEM64, SEQ ID NO:17.
XX
OS
    Homo sapiens.
XX
PN
    WO200118022-A1.
PD
    15-MAR-2001.
    31-AUG-2000; 2000WO-US24008.
PF
PR
    03-SEP-1999;
                99US-0152315.
PR
    03-SEP-1999;
                99US-0152317.
XX
PΑ
    (HUMA-) HUMAN GENOME SCI INC.
XX
PΙ
    Ni J, Baker KP, Birse CE, Fiscella M, Komatsoulis GA, Rosen CA;
PΙ
    Soppet DR, Young PE, Ebner R, Duan DR, Olsen HS, Lafleur DW;
ΡI
    Moore PA, Shi Y, Wei Y, Florence KA;
XX
PT
    Nucleic acid molecules encoding human secreted proteins, used in
PT
    preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
    Parkinson's diseases and cancers -
PT
SO
    Sequence 1038 BP; 224 A; 289 C; 279 G; 242 T; 4 other;
                     90.4%; Score 662.6; DB 22; Length 1038;
 Query Match
 Best Local Similarity
                     99.0%; Pred. No. 1.3e-156;
 Matches 676; Conservative
                                          5; Indels
                           1; Mismatches
                                                     1; Gaps
                                                               1;
Qу
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      2 caacaagagccacctctgggtgraggaggtctggcggatggagatctacctctcct 61
Qу
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Qу
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Qу
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Qу	638	gatatacacacatatgtgtatatgtatttacatatattccacatatataacaggatttgc	697
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Qу	698	aattatacatagctagctaaaaa 720	
Db	662	aattatacatagctagaaaa 684	

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



(DI) IIICCIIALIOIIAI I ACCI	nt Classification 6:		(11) International Publication Number: WO 00/1101
C07H 21/04, C0 15/63, C12Q 1/6	07K 14/705, C12N 15/09, 68	A1	(43) International Publication Date: 2 March 2000 (02.03.00
21) International Appli	ication Number: PCT/US	99/1935	(74) Agent: SPRUNGER, Suzanne, A.; American Home Produc Corporation, Patent & Trademark Dept. – 2B, One Camp
(22) International Filing	Date: 24 August 1999 ((24.08.99	Daine Denting and NI 07054 (IIC)
(30) Priority Data: 60/097,638	24 August 1998 (24.08.98)	U	
60/097,659 60/099,618	24 August 1998 (24.08.98) 9 September 1998 (09.09.98		LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, M
60/102,092 60/109,978	28 September 1998 (28.09.9 25 November 1998 (25.11.9		
60/113,645	23 December 1998 (23.12.9	8) U	S (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Euras
60/113,646 09/379,246	23 December 1998 (23.12.9 23 August 1999 (23.08.99)	U	patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, C IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, C
	AGENE, INC. [US/US]; 260 W	est Cun	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
	burn, MA 01801 (US).		Published
Woburn, MA C Cummings Park, Heidi; 260 Wes	ZUELA, Dario; 260 West Cumm; 01801 (US). YUAN, Olive; 2 , Wobum, MA 01801 (US). Host St Cummings Park, Wobum, M leff; 260 West Cummings Park,	260 We DFFMAN IA 0180	St Before the expiration of the time limit for amending claims and to be republished in the event of the receipt 1 amendments.
	. RAPIEJKO, Peter, 260 West C		
(54) Title: SECRETED	PROTEINS AND POLYNUCLE	OTHER	LYNIGODNIG MYTTY (
	TROTEING MAD TODINGCEL	OTIDE	S ENCODING THEM
(57) Abstract	TROTEING TRUE TOETHOOLE	OTIDE	SENCODING THEM
	ides and the proteins encoded the		
	ides and the proteins encoded the		
(57) Abstract Novel polynucleoti	ides and the proteins encoded the	reby are	
	ides and the proteins encoded the	reby are	

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AAA23459 standard; cDNA; 3098 BP.
ID
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DT
     19-JUN-2000 (first entry)
XX
DE
     cDNA encoding human secreted protein vp17 1, SEQ ID NO:73.
XX
    Homo sapiens.
OS
XX
PN
    W0200011015-A1.
XX
PD
     02-MAR-2000.
XX.
PF
    24-AUG-1999; 99WO-US19351.
XX
PR
    24-AUG-1998; 98US-0097638.
PR
    24-AUG-1998; 98US-0097659.
PR
    09-SEP-1998; 98US-0099618.
PR
    28-SEP-1998; 98US-0102092.
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    23-DEC-1998;
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                 99US-0379246.
XX
PΑ
    (ALPH-) ALPHAGENE INC.
XX
PΙ
    Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX
DR
    WPI; 2000-224657/19.
DR
    P-PSDB; AAY95017.
XX
PT
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PT
    them, useful for treating neurodegenerative disorders, autoimmune
PT
    diseases and cancer -
XX
PS
    Claim 82; Page 333; 357pp; English.
XX
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         Db
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